

Patent Abstracts of Japan

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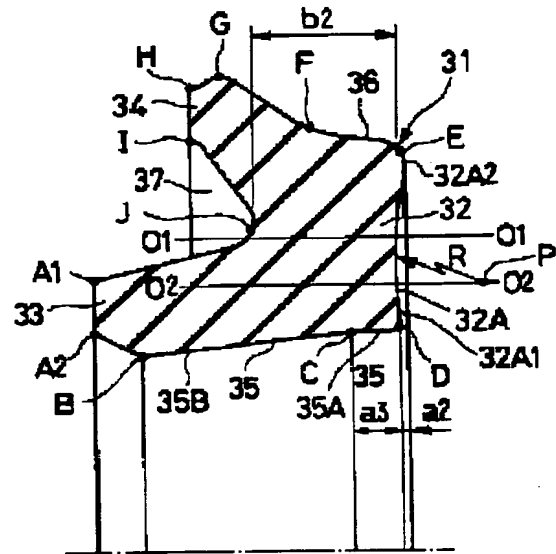
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TITLE : PISTON CUP FOR RECIPROCATING PISTON



ABSTRACT : PROBLEM TO BE SOLVED: To decrease deformation when a pressure is applied, and maintain seal performance over a long period, by mounting a base part end face and an internal peripheral surface of a base part into close contact uniformly with a cup fit mounting groove.

SOLUTION: In a base part 32, a curve end face 32A protruding an external peripheral end 32A2 to an axial direction one side from an internal peripheral end 32A1 is provided, to be formed as a flexed cylinder surface 35 having a straight-shaped inner surface 35A with an internal peripheral surface in uniform diametrical dimension in one side, axial direction length dimension a3 of the straight-shaped inner surface 25A is set to 1/3 axial direction length dimension b2 between an annular recessed groove bottom and the curve end face 32A. In this way, when a piston cup 31 is mounted, the peripheral end 32A2 of the curve end face 32A is pulled to the other side in an axial direction, the curve end face 32A is flattened, to be uniformly into close contact with a cup fit mounting part. The straight-shaped inner surface 35A is pulled in a diametric direction inward, the flexed cylinder surface 35 is mounted into close contact uniformly with the cup fit mounting groove.

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